CLAIMS

A method for separating components from vegetable material which comprises at least leaf and/or stem parts, characterized in that the material is at the least partly fiberized, and subsequently is separated into a fiber fraction and a juice stream, such that the fiber fraction principally comprises relatively firm tissues such as epidermis, sclerenchyma and vascular bundles, and the juice stream principally comprises soft tissues such as parenchyma, and cytosol.

2. A method according to claim 1, wherein the juice stream comprises chloroplasts.

- 3. A method according to claim 1 or 2, wherein the material is mechanically fiberized.
- 4. A method according to claim 3, wherein the material is fiberized by means of a refiner.
- A method according to any one of claims 1-4, wherein the fiber fraction is separated from the juice stream through screening.
 - 6. A method according to any one of claims 1-5, wherein the vegetable material originates from a cultivated crop.
 - 7. A method according to claim 6, wherein the cultivated crop belongs to the family of grasses.
 - 8. A fiber fraction obtained by a method according to any one of claims 1-7.
 - 9. Use of a fiber fraction according to claim 8.
 - 10. Use of a fiber fraction according to elaim 9 for the production of energy or for the production of carryboard and/or paper.
 - 11. A juice stream obtained by a method according to any one of claims 1-7.

- 12. A juice stream according to claim 11, which contains more than 55%, preferably more than 75%, preferably more than 90% of the crude protein of the vegetable material.
- 13. Use of a juice stream according to plaim 11 or 12.
- Use of a juice stream according to claim 11 or 12 for the production of food.
- Use of a juice stream according to claim 11 or 12 for recovering or purifying at least a content substance.
- 16. An apparatus for carrying out a method according to any one of claims 1-7.
- 17. An apparatus according to claim 16 which comprises at least a refiner.
- 18. An apparatus in which a method according to any one of claims 1-7 is carried out.

